National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

CALIBRATION LABORATORIES **NVLAP LAB CODE 200400-0**

DEKA SCALE, INC., SCALES AND BALANCES
1144 Expressway Drive South
Toledo, OH 43608
Mr. Clyde L. Duncan
Phone: 419-727-9731 Fax: 419-727-9735
E-Mail: clyde.duncan@dekascale.com

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

MECHANICAL

NVLAP Code: 20/M08
Mass

Range	*Best Uncertainty (±)*[note 1]	*Remarks*
25 lb	0.068 g	Modified Substitution
50 lb	0.183 g	Modified Substitution
500 lb	4.840 g	Modified Substitution
1,000 lb	5.227 g	Modified Substitution

June 30, 2005
Effective through

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NVLAP Code: 20/M08
Scales

Class I[note 1]

Range	*Readability*	*Minimum Tested Capacity*[note 2]	*Best Uncertainty (±)*[notes 3,5]	*Remarks*[note 4]
0-250 mg	0.1 mg	100%	0.15 mg	ASTM 1

Class II[note 1]

Range	*Readability*	*Minimum Tested Capacity*[note 2]	*Best Uncertainty (±)*[notes 3,5]	*Remarks*[note 4]
0-100 g	1.0 mg	100%	0.58 mg	ASTM 2
0-200 g	2.0 mg	100%	1.2 mg	ASTM 2
0-500 g	5.0 mg	100%	2.9 mg	ASTM 2
0-1000 g	10.0 mg	100%	5.8 mg	ASTM 2
0-10,000 g	0.1 g	100%	58 mg	ASTM 2
0-32,000 g	0.5 g	100%	289 mg	ASTM 2
0-64,000 g	1.0 g	100%	578 mg	ASTM 2

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Class III[note 1]

Range	*Readability*	*Minimum Tested Capacity*[note 2]	*Best Uncertainty (±)*[notes 3,5]	*Remarks*[note 4]
0-5 lb	0.0005 lb	100%	0.00029 lb	NIST Class F
0-10 lb	0.001 lb	100%	0.00057 lb	NIST Class F
0-20 lb	0.002 lb	100%	0.0012 lb	NIST Class F
0-50 lb	0.005 lb	100%	0.0029 lb	NIST Class F
0-100 lb	0.01 lb	100%	0.0058 lb	NIST Class F
0-200 lb	0.02 lb	100%	0.012 lb	NIST Class F
0-500 lb	0.05 lb	75%	0.029 lb	NIST Class F
0-1,000 lb	0.1 lb	75%	0.058 lb	NIST Class F
0-5,000 lb	0.5 lb	50%	0.29 lb	NIST Class F
0-10,000 lb	1.0 lb	50%	0.58 lb	NIST Class F
0-20,000 lb	2.0 lb	50%	1.2 lb	NIST Class F
0-40,000 lb	5.0 lb	12.5%	2.9 lb	NIST Class F
		50%	5.9 lb	By Substitution

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Class IIIL[note 1]

Range	*Readability*	*Minimum Tested Capacity*[note 2]	*Best Uncertainty (±)*[notes 3,5]	*Remarks*[note 4]
0-50,000 lb	5.0 lb	12.5%	2.9 lb	NIST Class F By Substitution
		50%	10.6 lb	NIST Class F By Substitution
0-100,000 lb	10.0 lb	12.5%	5.8 lb	NIST Class F By Substitution
		25%	11.7 lb	NIST Class F By Substitution
0-200,000 lb	20.0 lb	12.5%	11.6 lb	NIST Class F By Substitution
		25%	15.4 lb	NIST Class F By Substitution
0-400,000 lb	50.0 lb	30,000 lb	28.9 lb	Railway Track Scales[note 6]

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Class IIII[note 1]

Range	*Readability*	*Minimum Tested Capacity*[note 2]	*Best Uncertainty (±)*[notes 3,5]	*Remarks*[note 4]
0-100 lb	0.01 lb	100%	0.06 lb	NIST Class F
0-500 lb	0.5 lb	75%	.29 lb	NIST Class F
0-5,000 lb	5.0 lb	50%	2.9 lb	NIST Class F
0-10,000 lb	50.0 lb	50%	29.0 lb	NIST Class F

1. Scale classifications determined by NIST Handbook 44, Scales Code, Table 3.
2. Minimum tested capacity required by NIST Handbook 44, Table 4.
3. Represents an expanded uncertainty using a coverage factor, k=2.
4. Class weights used. Suitable weight classifications determined by OIML R111, 1994, ASTM E 617-97, and NIST Handbook 105-1.
5. Uncertainty reported at capacity; full uncertainty analysis on file.
6. NIST Handbook 44, N.3.1.2 Interim Approval- A test weight load of not less than 13,500 kg (30,000 lb) and a strain-load test up to at least 25% of scale capacity may be used to return a scale into service following repairs.

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